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National Aeronautics
and Space Administration

December 27, 1995
NRA 95-OSS-18

Research Announcement

Space Ultraviolet/Visible

Detector Development Program

97-007393/VS

Letters of Intent Due: February 5, 1996

Proposals Due: March 27, 1996

C

OMB Approval No. 2700-0087

SPACE ULTRAVIOLET/VISIBLE DETECTOR DEVELOPMENT PROGRAM

NASA Research Announcement
Soliciting Proposals
for
Basic Research in the Development
of Space Ultraviolet/Visible Detectors for
Astrophysics

NRA 95-OSS-18

Issued: December 27, 1995

Letters of Intent due: February 5, 1996

Proposals due: March 27, 1996

Office of Space Science
National Aeronautics and Space Administration
Washington, DC 20546-0001

NASA RESEARCH ANNOUNCEMENT

SPACE ULTRAVIOLET/VISIBLE DETECTOR DEVELOPMENT PROGRAM

LIST OF APPENDICES

Appendices are available via anonymous ftp or the World Wide Web from: ftp://ftp.hq.nasa.gov/pub/astrophysics/NRAs/UV_Visible/Detector, or by paper hardcopy (contact H. Hasan (202)358 0377, e-mail: hhasan@hq.nasa.gov).

Appendices :

A. Program Description

B. Instructions for Responding to NASA Research Announcements

C. Additional Guidelines Regarding Proposal Submission, Evaluation, Selection, and Implementation for This NRA

D. Cover Pages, Budget Forms, and Institutional Certifications

SPACE ULTRAVIOLET/VISIBLE DETECTOR DEVELOPMENT PROGRAM

This NASA Research Announcement (NRA) solicits proposals for basic supporting research and technology in the area of ultraviolet (UV) and visible detector development for space astrophysics. This NRA is for new development efforts, as well as for ongoing programs. Investigators currently receiving NASA support for UV/visible detector development who are interested in continuing this support must respond to this NRA.

The purpose of the Space Ultraviolet/Visible Detector Development Program (SUVDDP) is to provide for the basic research and technology development of detectors needed for future ultraviolet and visible space astronomy missions. The SUVDDP involves development of detectors for space astronomy applications in the spectral range of 100 to 7000 Angstroms, which covers the extreme ultraviolet, ultraviolet, and visible spectral regimes.

Detector programs which have no clear application to future UV or visible space astronomy missions will not be considered. Furthermore, the goal of the SUVDDP is **not** to develop flight qualified hardware for specific instruments, but rather to understand the fundamental operational and technological aspects of detectors and to develop them to the point where they can be proposed as part of an instrument for future announcements of flight opportunity.

Participation in this program is open to all categories of organizations, including industry, educational institutions, nonprofit organizations, corporations, NASA Centers, and other Government agencies. Appendix C provides specific information on foreign participation. A Letter of Intent to propose should be received by February 5, 1996, and proposals may be submitted at any time during the period ending March 27, 1996. Following peer panel evaluation, NASA will select proposals for funding and plan to announce the selection results by September 1996.

Funds for awards under this NRA are expected to be available subject to the annual NASA budget cycle. The Government's obligation to make awards is contingent upon the availability of appropriated funds and the receipt of proposals which the Government determines are acceptable for award under this NRA. It is presently expected that the total funding for the SUVDDP will be at an annual level of about $1.1M. The program presently supports ten research projects.

Further details relevant to the Space Ultraviolet/Visible Detector Development Program are included in the appropriate appendices, which may be obtained by paper hardcopy or retrieved electronically via anonymous ftp or the World Wide Web from the addresses given below. **Appendix A** provides specific information relevant to the Space Ultraviolet/Visible Detector Development Program opportunity. **Appendix B** contains the basic guidance needed for preparation of solicited proposals in response to an NRA. **Appendix C** provides additional information on the submission of proposals and their evaluation, selection, and implementation that augments the information contained in Appendix B. The information in Appendix C is applicable to this NRA only. **Appendix D** contains the title page and data sheets needed to prepare proposals responding to this NRA, together with the required budget forms and forms for institutional certifications. Please replicate these forms and use them in your submission.

IDENTIFIER:	NRA 95-OSS-18
SUBMIT LETTERS OF INTENT TO PROPOSE **EITHER** TO:	Dr. Hashima Hasan Office of Space Science Code SZ National Aeronautics and Space Administration Washington, DC 20546-0001
OR ELECTRONICALLY TO :	hhasan@hq.nasa.gov
SUBMIT LETTERS OF INTENT BY:	February 5, 1996
SUBMIT PROPOSALS TO:	UV/Visible Detector Program Code SZ-1 Suite 700 400 Virginia Avenue, SW Washington, DC 20024 Phone: (202) 554-4923 or (202) 554-2775
PROPOSAL DUE DATE:	March 27, 1996
NUMBER REQUIRED:	15 copies
SELECTING OFFICIAL:	Director, Astrophysics Division Office of Space Science

ANONYMOUS FTP OR
WORLD WIDE WEB FROM:

ftp://ftp.hq.nasa.gov/pub/astrophysics/NRAs/UV_Visible/Detector

ADDITIONAL INFORMATION
AND PAPER HARDCOPY OF NRA
AND APPENDICES CAN BE
OBTAINED FROM:

Dr. Hashima Hasan
Office of Space Science
Code SZ
National Aeronautics and Space
Administration
Washington, DC 20546-0001
Phone: (202) 358-0377
email: hhasan@hq.nasa.gov

Your interest and cooperation in participating in this effort are appreciated.

Wesley T. Huntress, Jr.
Associate Administrator
for Space Science

NASA Research Announcement (NRA)/Announcement of Opportunity (AO) Mailing List Update

If your current address is NOT up-to-date, please fill out this form completely.

This is the update form for the NASA Office of Space Sciences (OSS) NRA/AO mailing list. Please fill out CONTACT INFORMATION completely. Check only those that apply in Institution Type and Discipline. Fold the form, secure with tape, and mail it back to the address on the reverse side. Proper postage must be applied.

Please check which announcements you would like to receive:

- ☐ 1. NASA Research Announcements (basic, non-flight, on-going research)
- ☐ 2. Announcements of Opportunity (specific space flight mission)

Must check one, please include code number from mailing label:

- ☐ 1. Please ***add*** my name to the mailing list.
- ☐ 2. Please ***remove*** my name from the mailing list (please attach mailing label)
- ☐ 3. Please ***update*** my current listing.

CONTACT INFORMATION If your address has changed or your mailing label is incorrect, please provide ***COMPLETE*** contact information.

Code Number: (obtain from mailing label)

Salutation: (Mr.,Mrs.,Ms.,Dr.,Prof.,etc.)

Suffix (Ret.,PhD.,Jr.,III,etc.)

First Name: MI: Last Name:

Organization:

Division / Department:

Street:

City: State: Zip:

Telephone No: Fax No:

E-Mail Address: Internet Address:

Country: (foreign addresses, please specify)

Institution Type

(check only those that apply)

- ☐ 1. College or University
- ☐ 2. Minority College or University
- ☐ 3. Foreign Addressee
- ☐ 4. Minority Business
- ☐ 5. NASA HQs/Center
- ☐ 6. Nonprofit Corporation
- ☐ 7. Other Government Agency
- ☐ 8. Private Industry
- ☐ 9. Small Business

Societies:

- ☐ A. American Astronomical Society
- ☐ B. American Geophysical Union
- ☐ C. Others _____

Discipline:

(check only those that apply)

1. Astronomy and Astrophysics

- ☐ A. Theory and Modeling
- ☐ B. Instrumentation (Technology Dev)
- ☐ C. Laboratory Astrophysics
- ☐ D. Data Analysis (Archival)
- ☐ E. Observational Programs

2. Solar System Exploration

- ☐ A. Planetary Atmospheres and Astronomy
- ☐ B. Planetary Materials and Geochemistry
- ☐ C. Planetary Geology and Geophysics
- ☐ D. Instrument Development
- ☐ E. Origins of Solar Systems
- ☐ F. Exobiology

3. Space Physics

- ☐ A. Cosmic and Heliosphere Physics
- ☐ B. Solar Physics
- ☐ C. Magnetospheric Physics
- ☐ D. Iono-Thermo-Mesospheric Physics

4. Information Systems/Computer Science

- ☐ A. High Performance Computing and Networking
- ☐ B. Scientific Data Analysis and Visualization
- ☐ C. Science Data Storage and Management
- ☐ D. Software Technology

SPI
7/94

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END

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